

Genetics
Learning Set 2.8 Reading Guide
Genetic Diseases: Cystic Fibrosis

Directions: Read 83 in your Science book. List the similarities and differences of between your life and Derek's life.

| Differences | Similarities |
|-------------|--------------|
| | |

Read page 82 and summarize the information you learned in the appropriate box.

| | |
|--|--|
| <p style="text-align: center;">Chromosomes and Genes:</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> | <p style="text-align: center;">Dominant Alleles and Genetic Diseases:</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
| <p style="text-align: center;">Genetic Diseases in Humans:</p> <hr/> <hr/> <hr/> <hr/> <hr/> | <p style="text-align: center;">Plants & Animals:</p> <hr/> <hr/> <hr/> <hr/> |

~~Read then list the main points you learned in the appropriate box.~~

Cystic Fibrosis (p.84)

Huntington's Disease (p.85)

Sickle Cell Anemia (p.85)

Francis Collins and Adult Leukemia (p. 86)



Reflect

1. Cystic fibrosis (CF) is carried by a recessive allele. A person with CF has two recessive alleles for this trait (cc). Use a Punnett square to determine the percent of offspring that could have CF if parents, who have the recessive allele (Cc), had offspring.

| | |
|--|--|
| | |
| | |

2. Derek has cystic fibrosis (CF). Even though he has the disease and has to have chest physiotherapy and medication every day, he still does many of the things other kids do. If you met Derek, what three things would you ask him about living with CF?



UPDATE THE PROJECT BOARD

This section may have made you think more about genes, chromosomes, and how traits are passed from parents to offspring. Think about investigations you would like to explore and put these ideas in the **What do we need to investigate?** column. Think about the information that you learned in the case study and think about the information that would be important for answering the **Big Question or addressing the Big Challenge**. Record your ideas in the last column on the Project board.

What's the Point? List three important details/information.

